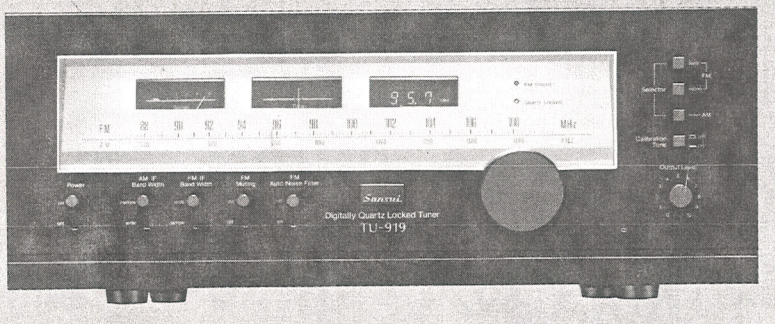
SERVICE MANUAL

DIGITALLY QUARTZ LOCKED TUNER

SANSUI TU-919



Sansui

SANSUI ELECTRIC CO., LTD.

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SPECIFICATIONS

FM Section

Tuning range . . . . . 88 to 108 MHz
Usable sensitivity
  Mono IHF . . . . . 9.0 dBf (1.54 μV: T100)
  DIN . . . . . 0.95 μV
  Stereo IHF . . . . . 15.0 dBf
50 dB quieting sensitivity
  Mono . . . . . 12.5 dBf
  Stereo . . . . . 34.0 dBf
Signal to noise ratio at 65 dBf
  Mono . . . . . 82 dB
  Stereo . . . . . 76 dB
Distortion at 65 dBf (WIDE)
  Mono . . . . . less than 0.06 % at 100 Hz
  less than 0.04 % at 1,000 Hz
  less than 0.08 % at 6,000 Hz
  Stereo . . . . . less than 0.09 % at 100 Hz
  less than 0.06 % at 1,000 Hz
  less than 0.15 % at 6,000 Hz
Alternate channel selectivity (at 400 kHz)
  WIDE . . . . . 50 dB
  NARROW . . . . . 80 dB
Capture ratio . . . . . 0.9 dB
Image response ratio . . 110 dB (at 98 MHz)
Spurious response ratio
  . . . . . 110 dB (at 98 MHz)
Stereo separation . . . . 40 dB at 100 Hz
  50 dB at 1,000 Hz
  35 dB at 10,000 Hz
Frequency response . . 30 to 15,000 Hz
  +0.2 dB, −0.5 dB
Antenna input impedance
  . . . . . 300 ohms balanced
  75 ohms unbalanced

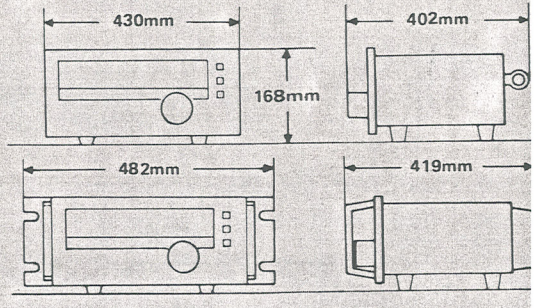
AM Section

Tuning range . . . . . 530 to 1,600 kHz
Usable sensitivity (Bar antenna)
  . . . . . 47 dB/m (220 μV/m)
Selectivity . . . . . 35 dB
Signal to noise ratio . . 50 dB

Others

Output voltage and impedance
  OUTPUT . . . . . 0 to 1.0 V/2.5 kilohms
  DOLBY FM . . . . . 200 mV/9 kilohms
Power requirements . . 100, 120, 220, 240 V 50/60 Hz
  For U.S.A. and Canada
  . . . . . 120 V (60 Hz)
Power consumption . . 22 W

Dimensions



Weight . . . . . 9.8 kg (21.6 lbs) net
11.6 kg (25.6 lbs) packed

* Design and specifications subject to changes witho notice for improvements.
* In order to simplify the explanation illustrations m sometimes differ from the originals.

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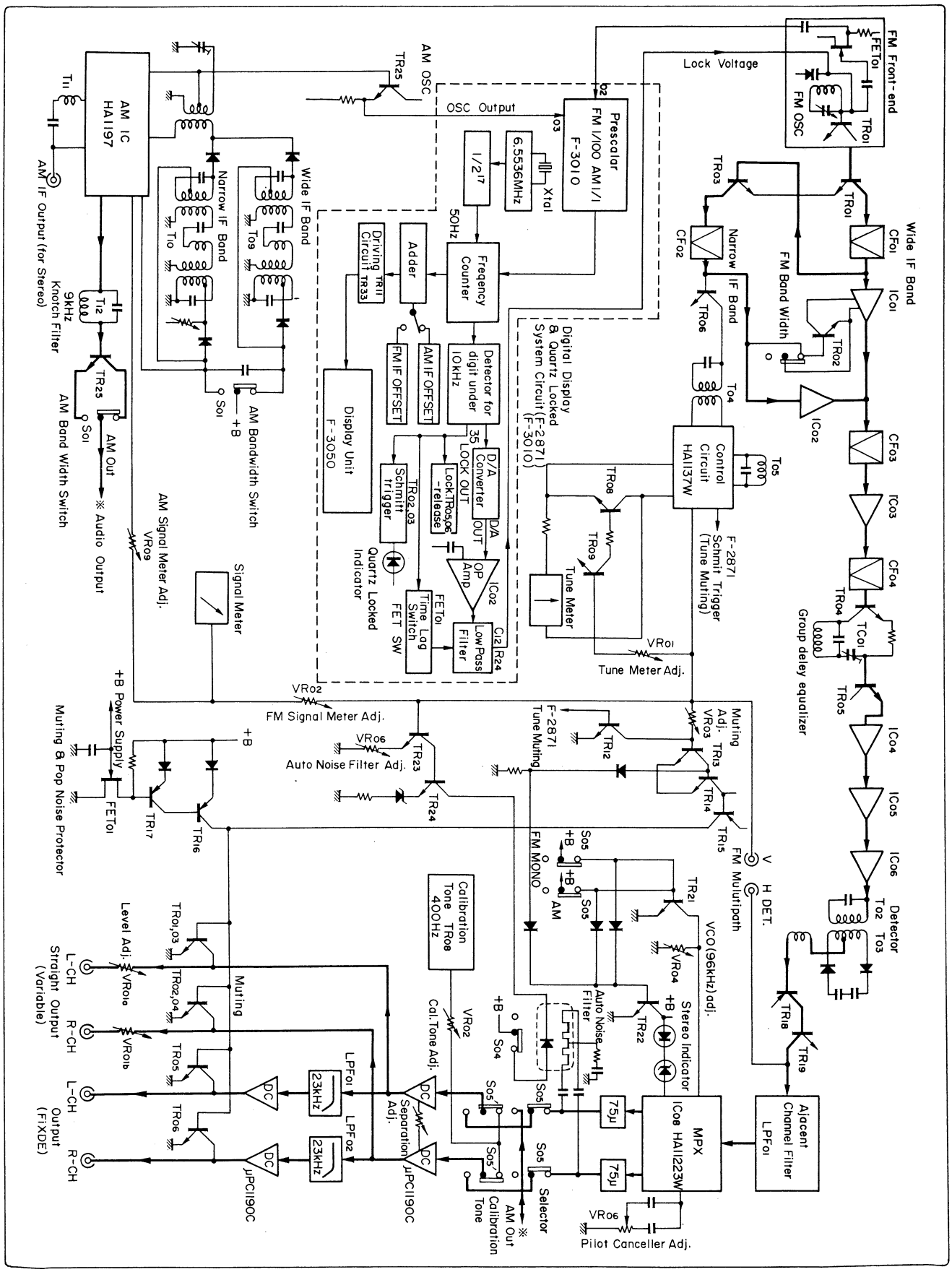
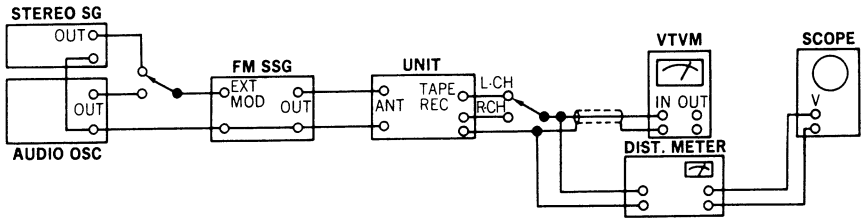
1. BLOCK DIAGRAM



2. ADJUSTMENTS

1) FM, IF, RF Adjustment Calibration(See Top View on Page 8)

Note: 1. Selector . . . . . FM MONO
2. Output Level Volume . . . . . MAX.



STEP	SUBJECT	FEED SIGNAL FROM	FEED SIGNAL TO	MEASURE OUTPUT	ADJUST	ADJUST FOR	REMARKS
1.	Confirm Locked Indicator	98 MHz ANT Input 65 dBf (59.8 dB) 1 kHz (100% MOD) FM SSG	ANT terminal 300Ω	Locked Indicator		Indicator Lighting	Tune 98 MHz at Display Unit
2.	IF Coil Adj.	98 MHz ANT Input 20 ~ 30 dBf (14.8 ~ 24.8 dB) 1 kHz (100% MOD) FM SSG	Same as above	Signal Meter	T02 (Front-end) T04 (F-2870)	Max. Output	
3.	Tune Meter	98 MHz ANT Input 65 dBf (59.8 dB) 1 kHz (100% MOD)	Same as above	Tune Meter	T05 (F-2870)	Center on Meter	
		No Input		Tune Meter	VR01 (F-2870)	By the noise between FM station, make the motor indication not swinging	
4.	Discriminator Coil Adj.	98 MHz ANT Input 65 dBf (59.8 dB) 1 kHz (100% MOD)	Same as above	TP01 (F-2870) DC Volt Meter	T03 (F-2870)	0 ~ 0.03V	
5.	AFC Voltage Adj.	Receive the nearest FM station		TP02 (F-2871) DC Volt Meter	V01 (F-2871)	DC 7V	Ground TP03 (F-2871)
6.	Distortion Adj.	98 MHz ANT Input 65 dBf (59.8 dB) 1 kHz (100% MOD)	Same as above	Out R or L-CH Distortion Meter	T02, T01, TC01 (F-2870)	Min. Distortion	
7.	98 MHz Dial Calibration	No Input		Dial Pointer	Tuning Knob	98 MHz	Confirm the dial calibration on the frequencies of 90 MHz & 106 MHz Ground TP03 (F-2871)
		Same as above		Indication of Display Unit	TC05 (Front-end)	98 MHz	
8.	98 MHz RF Adj.	98 MHz ANT Input Minimum value with sine wave 1000 Hz (100% MOD) FM SSG	ANT terminal 300Ω	Out R or L-CH Scope & VTVM	TC01, TC02 TC03, TC04 (Front-end)	Max. Output	Muting Switch . . . OFF
9.	Signal Meter Adj.	98 MHz ANT Input 100 dBf (94.8 dB) 1 kHz (100% MOD)	Same as above	Signal Meter	VR02 (F-2870)	4.7 on Meter	

●Abbreviations

Equipment
- AM FM Generator Oscilloscope . . . . . Genescope
- AM Standard Signal Generator . . . . . AM SSG
- FM Standard Signal Generator . . . . . FM SSG
- FM Stereo Generator . . . . . Stereo SG
- Oscilloscope . . . . . Scope
- Audio Oscillator . . . . . Audio Osc.
- Distortion Meter . . . . . Dist. Meter

Others
- Antenna . . . . . ANT.
- Modulation . . . . . MOD.
- Total Harmonic Distortion . . . . . T.H.D.

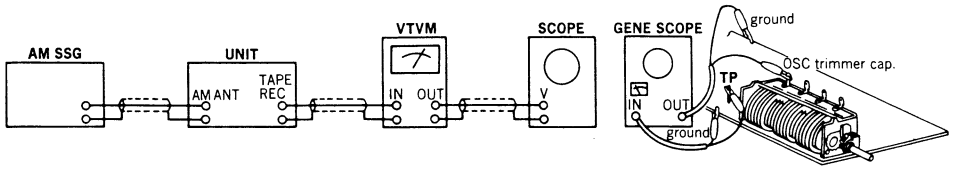
2) FM Stereo Adjustment (See Top View on Page 8)

Note: 1. Selector . . . . . FM Auto
2. Output Level Volume . . . . . MAX.

STEP	SUBJECT	FEED SIGNAL FROM	FEED SIGNAL TO	MEASURE OUTPUT	ADJUST	ADJUST FOR	REMARKS
1.	PLL VCO Adj.	98 MHz ANT Input 65 dBf (59.8 dB) FM SSG Pilot 19 kHz (9% MOD) R or L MODE 1 kHz + Pilot (100% MOD) STEREO SG	ANT terminal 300Ω	Stereo Indicator	VR04 F-2870	Light Indicator	Adjust the VR04 within center of lighting level
	PLL VCO Adj. In case of using Freq. counter	98 MHz ANT Input 65 dBf (59.8 dB) FM SSG (No MOD)	Same as above	TP02 F-2870 Freq. Counter	VR04 F-2870	76 kHz ±200 kHz	
2.	Distortion In case of STEREO	98 MHz ANT Input 65 dBf (59.8 dB) FM SSG Pilot 19 kHz (9% MOD) L-CH MODE 100 Hz + Pilot (100% MOD) STEREO SG	Same as above	OUT L-CH Dist. Meter	T06 F-2870	Min. Distortion	
		98 MHz ANT Input 65 dBf (59.8 dB) FM SSG Pilot 19 kHz (9% MOD)	Same as above	OUT L or R-CH VTVM	VR05 F-2870	Min. Distortion	VR05 . . . Pilot Canceller Volume
		98 MHz ANT Input 65 dBf (59.8 dB) FM SSG Pilot 19 kHz (9% MOD) L or R-CH MODE 1 kHz + Pilot (100% MOD) STEREO SG	Same as above	OUT L or R-CH Dist. Meter	T01 Front-end TC01 F-2870 VR05 F-2870	Min. Distortion	
3.	Separation	98 MHz ANT Input 65 dBf (59.8 dB) FM SSG Pilot 19 kHz (9% MOD) R MODE 1 kHz + Pilot (100% MOD) STEREO SG	Same as above	OUT L-CH VTVM	VR01 F-2875	OUT −45 dB	Confirm L-CH → R-CH
4.	Muting Level & Indicator Level	98 MHz ANT Input 15 dBf (9.8 dB) FM SSG Pilot 19 kHz (9% MOD) L or R MODE 1 kHz + Pilot (100% MOD) STEREO SG	Same as above	Stereo Indicator Out L or R-CH VTVM	VR03 F-2870	Muting & Indicator Level 15 dBf (9.8 dB)	
5.	Auto Noise Filter Adj.	98 MHz ANT Input 45 dBf (39.8 dB) FM SSG Pilot 19 kHz (9% MOD) Main 10 kHz + Pilot (100% MOD) STEREO SG	Same as above	OUT L or R-CH VTVM		Set indication level of VTVM to 0 dB	Auto Noise Filter Switch . . . OFF
		Same as above	Same as above		VR06 F-2870	Set indication level to −3 dB from the above level	Auto Noise Filter Switch . . . ON
6.	Calibration Level Adj.	98 MHz ANT Input 65 dBf (59.8 dB) 1 kHz (MONO 100%)	Same as above	OUT L or R-CH VTVM		Set indication level of VTVM to 0 dB	Calibration Switch . . . OFF
		No Input		OUT L or R-CH VTVM	VR02 F-2875	Set indication level to −5 dB from the above level	Calibration Switch . . . ON

3) AM, IF Adjustment & Dial Calibration (See Top View on Page 8)

Note: 1. Selector . . . . . AM
2. Output Level Volume . . . . . MAX.



STEP	SUBJECT	FEED SIGNAL FROM	FEED SIGNAL TO	MEASURE OUTPUT	ADJUST	ADJUST FOR	REMARKS
1.	IF Coil Adj. (Narrow Position)	Genescope Output 50 dB	TP03 (F-2870)	TP04 (F-2870)	T09, T11 (F-2870)	Max. Output	
2.	IF Coil Adj. (Wide Position)	Same as above	Same as above	Same as above	T10 (F-2870)	Max. Output	
3.	600 kHz Dial Calibration	No Input		Dial Pointer	Tuning Knob	600 kHz	
		Same as above		Indication of Digital Display Unit	T07 (F-2870)	600 kHz	
4.	1400 kHz Dial Calibration	Same as above		Dial Pointer	Tuning Knob	1400 kHz	
		Same as above		Indication of Digital Display Unit	AM2 (Front-end)	1400 kHz	
5.	600 kHz RF Adj.	600 kHz ANT Input 50 dB 400 Hz (30% MOD) AM SSG	AM Antenna Terminal	Out R or L-CH Scope & VTVM	T701 (Bar Antenna) T08, L10 (F-2870)	Max. Output	
6.	1400 kHz RF Adj.	Same as above	Same as above	Same as above	AM1, AM3 (Front-end)	Max. Output	
7.	Signal Meter Adj. (Narrow Position)	1000 kHz ANT Input 100 dB 400 Hz (100% MOD)	Same as above	Signal Meter	VR08 (F-2870)	4.7 on Meter	
	(Wide Position)	Same as above	Same as above	Signal Meter	VR07 (F-2870)	4.7 on Meter	
8.	9 kHz Knotch filter Adj.	9 kHz 5 mV Audio OSC.	TP04 (F-2870)	Out R or L-CH VTVM	T12 (F-2870)	Min. Output	

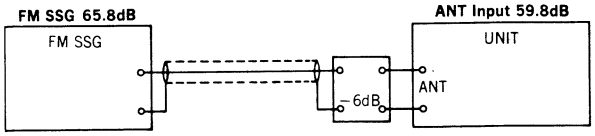
●NEW MEASUREMENT FOR FM.

Input signal level under the provision of IHFM-T-200, a new measurement method is indicated by available power ratio "dBf" To obtain approximate available power ratio "dBf", abstract 0.8 from attenuater indication of general FMSG (open load indication type); however, the former measurement, IHFM-T-100 is designated together too.

The way of modulation on IHFM-T-200 is shown below.

	modulation frequency	modulation mode	modulation fuctor
FM MONO	1000 Hz		100%
FM STEREO	1000 Hz	SUB	Pilot 9% Pilot + SUB 100%

- The relation between the standard input 65 dBf of IHFM-T-200 and the former indication "dB" is shown below.



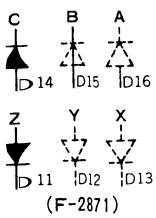
Selection of Intermediate Frequency for FM & AM

The digital locking point differs with frequency rank of FM ceramic filter (CF01 ~ 04) and AM IF LC Filter used in F-287 0, therefore, it is neces to change inserting position of diodes and jumper wires (digital locking point) by frequency rank of using filter. When replacement, play.

Colouring of CF01~CF04	Intermediate Frequency	Connecting Position on F-2871								
		FM C	AM Z		FM B	AM Y		FM A	AM X	
Black	10.64 MHz	D	–	D	–	–	–	–	–	–
Brown	10.66 MHz	–	–	–	J	–	–	–	–	–
Blue	10.68 MHz	D	–	D	J	–	–	–	–	–
Red	10.70 MHz	–	–	–	–	–	–	D	D	–
Orange	10.72 MHz	D	–	D	–	–	–	D	D	–
Gray	10.74 MHz	–	–	–	J	–	–	D	D	–
White	10.76 MHz	D	–	D	J	–	–	D	D	–
Intermediate of T09, T10 (kHz)			450	455		450	455		450	455

Note: D . . . Diode J . . . Jumper – . . . Open

EX. The connection when using ceramic filter with frequency rank blue (10.68 MHz) for CF01 ~ CF04 and 455 kHz filter for TR09 & TR10, is as shown as Fig. in the right.



(F-2871)

Stock No. of T09, T10

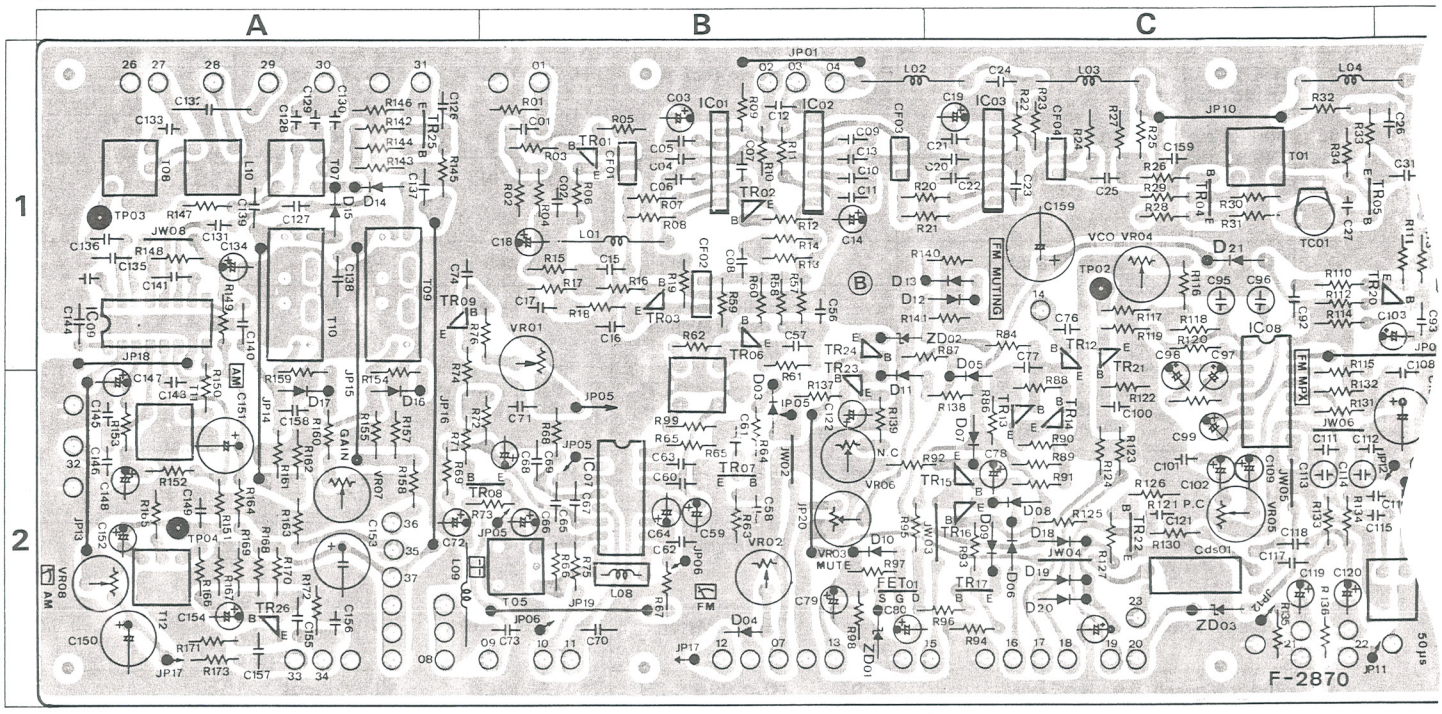
	450 kHz	455 kHz
T09	0910490	4230580
T10	0910500	4230690

3. PARTS LOCATION & PARTS LIST

Since some of capacitors and resistors are omitted from parts lists in this Service Manual, refer to the Common Parts List for capacitors & resistors which was appended previously to each Sansui Manual.

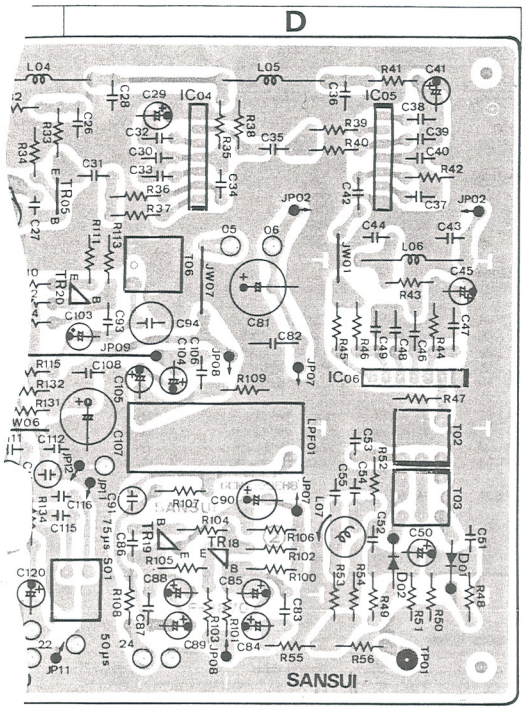
3-1. F-2870 Tuner Circuit Board (Stock No. 7522251)

Conductor Side



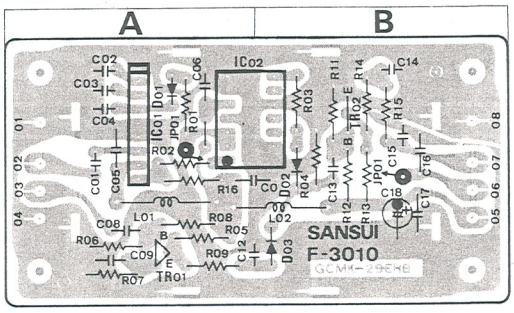
Parts List

Parts No.	Stock No.	Description	Position
●Transistor			
TR01	0306340 ~ 2	2SC1674 M, L, K	1B
TR02	0305731 ~ 3 0305951 ~ 3	2SC711 E, F, G 2SC945 Q, P, K	1B
TR03	0306340 ~ 2	2SC1674 M, L, K	1B
TR04	0306340 ~ 2	2SC1674 M, L, K	1C
TR05	0306340 ~ 2	2SC1674 M, L, K	1C
TR06	0306340 ~ 2	2SC1674 M, L, K	1B
TR07	0306340 ~ 2	2SC1674 M, L, K	2B
TR08	0306390, 1	2SC1636-1, 2	2B
TR09	0305731 ~ 3 0305951 ~ 3	2SC711 E, F, G 2SC945 Q, P, K	1A
TR12	0305731 ~ 3 0305951 ~ 3	2SC711 E, F, G 2SC945 Q, P, K	1C
TR13	0305731 ~ 3 0305951 ~ 3	2SC711 E, F, G 2SC945 Q, P, K	2C
TR14	0305731 ~ 3 0305951 ~ 3	2SC711 E, F, G 2SC945 Q, P, K	2C
TR15	0300510, 1	2SA733A (P), (Q)	2C
TR16	0300510, 1	2SA733A (P), (Q)	2C
TR17	0300510, 1	2SA733A (P), (Q)	2C
TR18	0300510, 1	2SA733A (P), (Q)	2D
TR19	0306010, 1 0306070, 1	2SC1222 (2) U, E 2SC1313 F, G	2D
TR20	0305731 ~ 3 0305951 ~ 3	2SC711 E, F, G 2SC945 Q, P, K	1D
TR21	0305731 ~ 3 0305951 ~ 3	2SC711 E, F, G 2SC945 Q, P, K	1C
TR22	0305731 ~ 3 0305951 ~ 3	2SC711 E, F, G 2SC945 Q, P, K	2C
TR23	0305731 ~ 3 0305951 ~ 3	2SC711 E, F, G 2SC945 Q, P, K	1B
TR24	0305731 ~ 3 0305951 ~ 3	2SC711 E, F, G 2SC945 Q, P, K	1B
TR25	0306240 ~ 2	2SC1675 M, L, K	1A
TR26	0305731 ~ 3 0305951 ~ 3	2SC711 E, F, G 2SC945 Q, P, K	2A
●IC			
IC 01	0360590	TA7302P	1B
IC 02	0360590	TA7302P	1B
IC 03	0360590	TA7302P	1C
IC 04	9360590	TA7302P	1D
IC 05	0360270	IC μPC-577H	1D
IC 06	0360540	UPC 1163H	2D
IC 07	0360350	HA1137W	2B
IC 08	0360680	HA11223W	2C
IC 09	0360390	HA1197	1A
●FET			
FET01	0370342 ~ 5	2SK163-L1, L2, M1, M2	2B
●Diode			
D 01	0311160	1S2473D	2D
D 02	0311160	1S2473D	2D
D 03	0340170	MV-103	2B
D 04	0311160 0311180	1S2473D 1S1588	2B
D 05	0311160 0311180	1S2473D 1S1588	2C
D 06	0311160 0311180	1S2473D 1S1588	2C
D 07	0340170	MV-103	2C
D 08	0340170	MV-103	2C
D 09	0311160 0311180	1S2473D 1S1588	2C
D 10	0311160 0311180	1S2473D 1S1588	2B
D 11	0311160 0311180	1S2473D 1S1588	2B
D 12	0340150	MV-12	1C
D 13	0340150	MV-12	1C
D 14	0311160 0311180	1S2473D 1S1588	1A
D 15	0311160 0311180	1S2473D 1S1588	1A
D 16	0311160 0311180	1S2473D 1S1588	2A
D 17	0311160 0311180	1S2473D 1S1588	2A
D 18	0311160 0311180	1S2473D 1S1588	2C
D 19	0311160 0311180	1S2473D 1S1588	2C
D 20	0311160 0311180	1S2473D 1S1588	2C
D 21	0310340	10D1	1C
●Zener Diode			
ZD01	0316390 0316400	RD6.2E B RD6.2E C	2B
ZD02	0316390 0316400	RD6.2E B RD6.2E C	1B
ZD03	0316390 0316400	RD6.2E B RD6.2E B	2C
C 86	0623120	12pF 125V P.C.	2B
C 91	0622221	220pF 125V P.C.	2D
C 94	0629001	6800pF 50V P.C.	1D
C 95	0622102	1000pF 125V P.C.	1C
C 96	0622222	2200pF 125V P.C.	1C
C 97	0573478	0.47μF 35V Ta.C.	1C
C 98	0573339	3.3μF 35V Ta.C.	1C
C 99	0573339	3.3μF 35V Ta.C.	2C
C 102	0573338	0.33μF 35V Ta.C.	2C
C 109	0573338	0.33μF 35V Ta.C.	2C
C 128	0669210	10pF 50V C.C.	1A
C 129	0622391	390pF 125V P.C.	1A
C 130	0669406	22pF 50V C.C.	1A
C 132	0679002	0.56pF 500V G.C.	1A
L 01 ~ 06	4290011	3.5μH Choke Coil	1B, C, D
L 07	4900400	100μH Inductor	2D
L 08	4290300	18μH Inductor	2B
L 09	4290011	3.5μH Inductor	2A
L 10	4290350	240μH Choke Coil	1A
T 01	4236130	FM IF Coil 10.7 MHz	1C
T 02	4236010	FM IF Coil 10.7 MHz	2D
T 03	4236020	FM IF Coil 10.7 MHz	2D
T 04	4235930	FM IF Coil 10.7 MHz	2B
T 05	4236040	FM IF Coil 10.7 MHz	2B
T 06	4240720, 1	MPX Coil 19 kHz	1D
T 07	4229710	OSC Coil	1A
T 08	4210400	AM RF Coil	1A
T 09	4230680	AM IF Coil 455 kHz	1A
T 10	4230690	AM IF Coil 455 kHz	1A
T 11	4230620	AM IF Coil 455 kHz	2A
T 12	0910450	Filter Coil	2A
LF 01	0910400	Adjacent Channel Filter	2D
VR01	1035190	100kΩ B Tune Meter Volume	1B
VR02	1035130	10kΩ B FM Signal Meter Volume	2B
VR03	1035190	100kΩ B Muting Volume	2B
VR04	1034230	2.2kΩ B MPX VCO Volume	1C
VR05	1035170	47kΩ Pilot Canceller Volume	2C
VR06	1035110	4.7kΩ B Auto Noise Filter Volume	2B
VR07	1035150	22kΩ B AM Width Volume	2A
VR08	1035070	1kΩ B AM Signal Meter Volume	2A
TC01	1230090	Trimmer	1C
CD01	0920080 0990020	Photo-coupler Ceramic Filter Ass'y (CF01 ~ CF04)	1B, C
S 01	1110240	De-emphasis Switch	



3-2. F-3010 Pre-Scaler Circuit Board (Stock No. 7597931)

Conductor Side

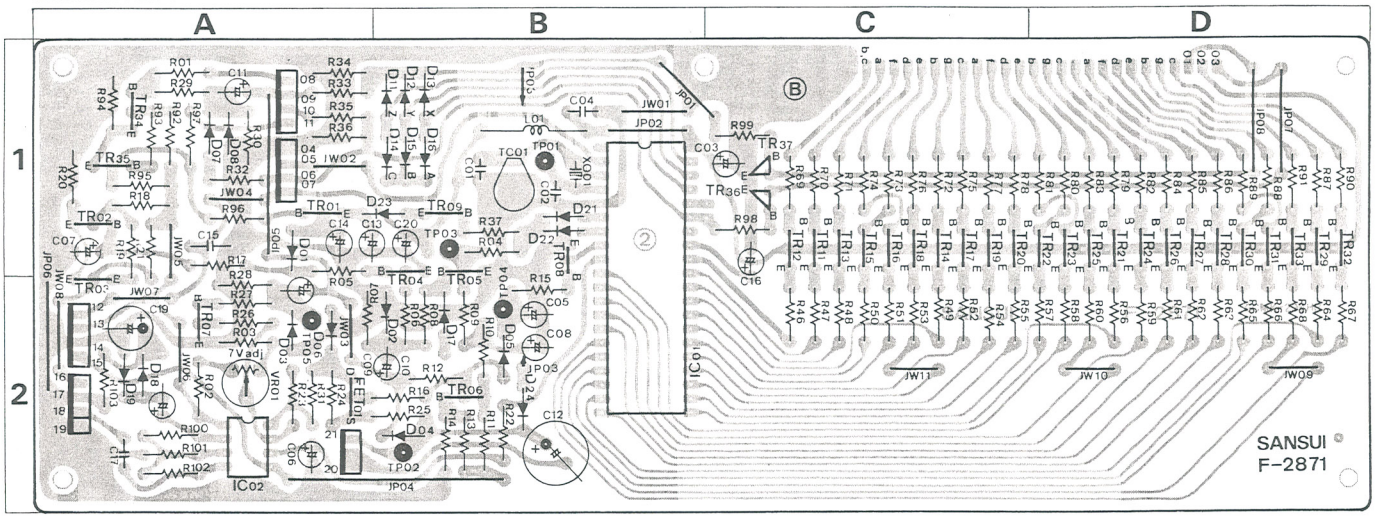


Parts List

Parts No.	Stock No.	Description	Position
●Transistor			
TR01	0306341, 2	2SC1674 L, K	A
TR02	0306341, 2	2SC1674 L, K	B
●IC			
IC 01	0361130	AN6821	A
IC 02	0361120	SN74LS90N	A
●Diode			
D 01	0311160	1S2473D	A
D 02	0311160	1S2473D	B
D 03	0311160	1S2473D	B
L 01	4290011	3.5μH Choke Coil	A
L 02	4290011	3.5μH Choke Coil	B

3-3. F-2871 Digitally Display Circuit Board (Stock No. 7597871)

Conductor Side



Parts List

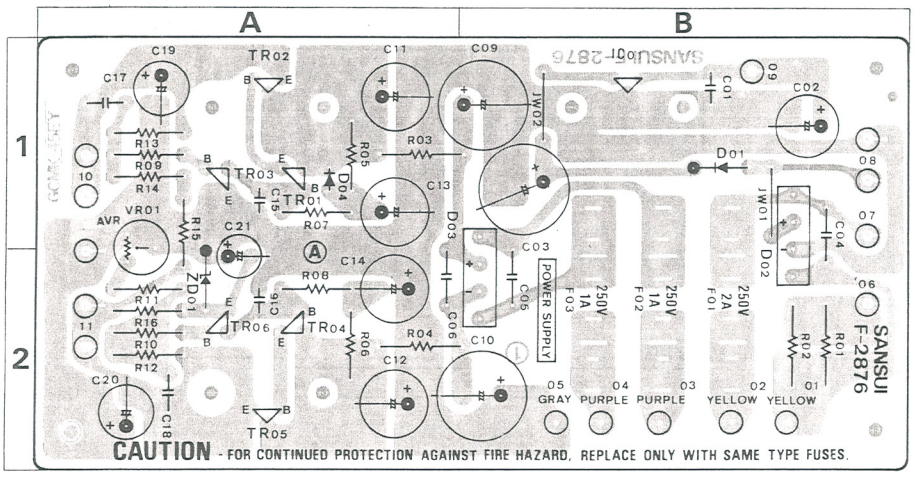
Parts No.	Stock No.	Description	Position
●Transistor			
TR01	0300510 ~ 2	2SA733A P, Q, R	1A
TR02	0305951 ~ 3	2SC945 Q, P, K	1A
TR03	0305951 ~ 3	2SC945 Q, P, K	2A
TR04	0305951 ~ 3	2SC945 Q, P, K	1B
TR05	0305951 ~ 3	2SC945 Q, P, K	1B
TR06	0305951 ~ 3	2SC945 Q, P, K	2B
TR07	0305951 ~ 3	2SC945 Q, P, K	2A
TR08	0305951 ~ 3	2SC945 Q, P, K	1B
TR09	0305951 ~ 3	2SC945 Q, P, K	1B
TR11	0305951 ~ 3	2SC945 Q, P, K	1C
TR12	0305951 ~ 3	2SC945 Q, P, K	1C
TR13	0305951 ~ 3	2SC945 Q, P, K	1C
TR14	0305951 ~ 3	2SC945 Q, P, K	1C
TR15	0305951 ~ 3	2SC945 Q, P, K	1C
TR16	0305951 ~ 3	2SC945 Q, P, K	1C
TR17	0305951 ~ 3	2SC945 Q, P, K	1C
TR18	0305951 ~ 3	2SC945 Q, P, K	1C
TR19	0305951 ~ 3	2SC945 Q, P, K	1C
TR20	0305951 ~ 3	2SC945 Q, P, K	1C

Parts No.	Stock No.	Description	Position
TR21	0305951 ~ 3	2SC945 Q, P, K	1D
TR22	0305951	2SC945 Q, P, K	1D
TR23	0305951 ~ 3	2SC945 Q, P, K	1D
TR24	0305951 ~ 3	2SC945 Q, P, K	1D
TR25	0305951 ~ 3	2SC945 Q, P, K	1D
TR26	0305951 ~ 3	2SC945 Q, P, K	1D
TR27	0305951 ~ 3	2SC945 Q, P, K	1D
TR28	0305951 ~ 3	2SC945 Q, P, K	1D
TR29	0305951 ~ 3	2SC945 Q, P, K	1D
TR30	0305951 ~ 3	2SC945 Q, P, K	1D
TR31	0305951 ~ 3	2SC945 Q, P, K	1D
TR32	0305951 ~ 3	2SC945 Q, P, K	1D
TR33	0305951 ~ 3	2SC945 Q, P, K	1D
TR34	0305731 ~ 3 0305951 ~ 3	2SC711 E, F, G 2SC945 Q, P, K	1A
TR35	0305731 ~ 3 0305951 ~ 3	2SC711 E, F, G 2SC945 Q, P, K	1A
TR36	0305951 ~ 3	2SC945 Q, P, K	1C
TR37	0305951 ~ 3	2SC945 Q, P, K	1C

Parts No.	Stock No.	Description	Position
●IC			
IC 01	0360910	MSM5540RS	1, 2B
IC 02	0360770	NJM4558D	2A
●FET			
FET01	0370300 ~ 3 0370340 ~ 7	2SK117-O, Y, GR, BL 2SK163-K1, K2, L1, L2, M1, M2, N1, N2	2A
●Diode			
D 01 ~ 24	0311160	1S2473D	1A, B.2A, B
C 01	0669508	8pF 50V C.C.	1B
C 02	0661220	22pF 50V C.C.	1B
L 01	4290011	Choke Coil 3.5μH	1B
VR01	1035110	4.7kΩ AFC Bias Volume	2A
TC01	1230150	30pF Trimmer Capacitor	1B
XO01	0930040	Xtal 6.5536 MHz	1B

3-4. F-2876 Power Supply Circuit Board (Stock No. 7503401)

Conductor Side

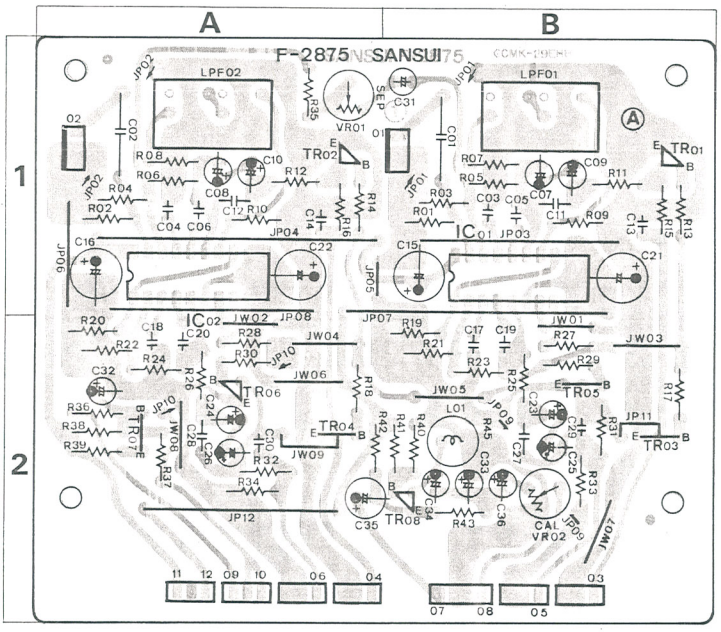


Parts List

Parts No.	Stock No.	Description	Position
●Transistor			
TR01	0306070 ~ 2	2SC1313 F, G, H	1A
TR02	0308391 ~ 3	2SD313AL D, E, F	1A
TR03	0306070 ~ 2	2SC1313 F, G, H	1A
TR04	0300510, 1	2SA733A P, Q	2A
TR05	0303231 ~ 3	2SB507V11-AL D, E, F	2A
TR06	0300510, 1	2SA733A P, Q	2A
●IC			
IC 01	0360920	FS7805M	1B
●Diode			
D 01	0310340	10D1	1B
D 02	0311700	RB-152	1, 2B
D 03	0311700	RB-152	1A
D 04	0310340	10D1	1A
●Zener Diode			
ZD01	0315770	EQA01-06S	2A
C 04	0655103	10000pF 500V C.C.	1, 2B
C 05	0655103	10000pF 500V C.C.	2B
C 06	0655103	10000pF 500V C.C.	2A
C 15	0622471	470pF 125V P.C.	1A
C 16	0622471	470pF 125V P.C.	2A
R 01	0211479	4.7Ω 1W N.I.R.	2B
R 02	0211569	5.6Ω 1W N.I.R.	2B
R 03	0211100	10Ω 1W N.I.R.	1A
R 04	0211100	10Ω 1W N.I.R.	2A
VR01	1035110	4.7kΩ B DC Voltage Adjust	1, 2A
F 01	0432240	2A 250V AC Fuse	2B
F 02	0432220	1A 250V AC Fuse	2B
F 03	0432220	1A 250V AC Fuse	2B

3-5. F-2875 Buffer Amp. Circuit Board (Stock No. 7597911)

Conductor Side



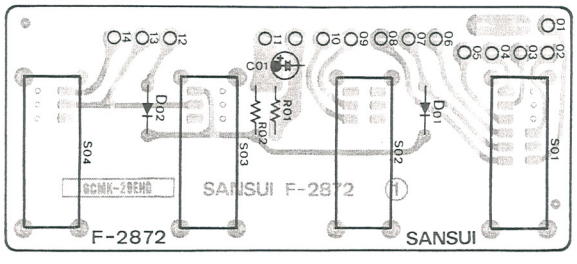
Parts List

Parts No.	Stock No.	Description	Position
●Transistor			
TR05, 06	0305951 ~ 3	2SC945 Q, P, K	2B.2A
TR07	0300510, 1	2SA733A P, Q	2A
TR08	0306010, 1	2SC1222 (2) U, E	2B
●IC			
IC 01, 02	0360810	UPC1190C	1B.1A
C 01, 02	0602109	1.0μF 100W F.C.	1B
C 03, 04	0622101	100pF 125V P.C.	1B.1A
C 05, 06	0623220	22pF 125V P.C.	1B.1A
C 17, 18	0622101	100pF 125V P.C.	2B.2A
C 19, 20	0623220	22pF 125V P.C.	2B.2A
C 32	0585229	2.2μF 50V E.C.	2A
C 33	0585339	3.3μF 50V E.C.	2B
C 34	0585339	3.3μF 50V E.C.	2B
L 01	4900220	100mH Inductor	2B
LF 01, 02	0910540	Low Pass Filter	1A, B
VR01	1035230	470kΩ B Separation Volume	1A
VR02	1035190	100kΩ B Calibration Tone Volume	2B

- The circuit boards, F-2872 are not supplied as the assembled, the individual part on the circuit boards, howerer are provided for orders.

3-6. F-2872 AM, FM Band Width Switch Circuit Board

Conductor Side



Parts List

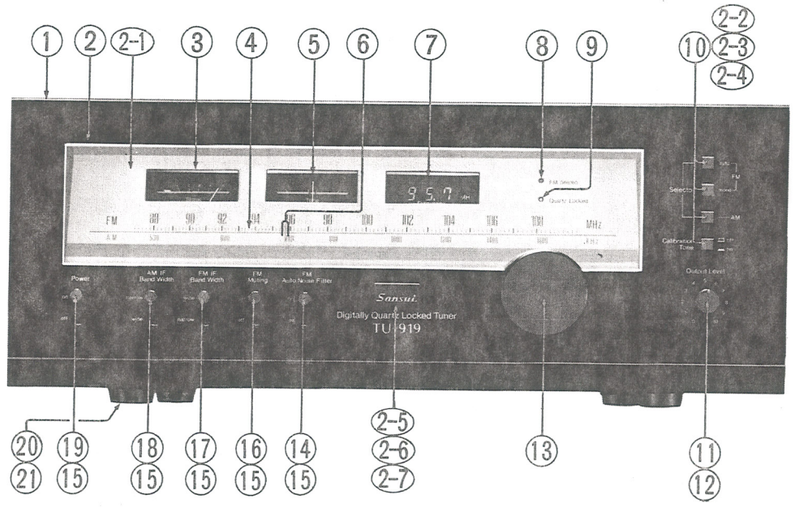
Parts No.	Stock No.	Description
●Diode		
D 01	0311160	1S2473D
	0311180	1S1588
D 02	0311160	1S2473D
	0311180	1S1588
S 01	1172070	AM Band Width Switch
S 02	1171130	FM Band Width Switch
S 03	1171130	Muting Switch
S 04	1171130	Auto Noise Filter Switch

●Abbreviations

C.R.	Carbon Resistor	E.L.	Low Leak Electrolytic Capacitor
S.R.	Solid Resistor	E.B.	Bi-Polar Electrolytic Capacitor
Ce.R.	Cement Resistor	E.BL.	Low Leak Bi-Polar Electrolytic Capacitor
M.R.	Metal Film Resistor	Ta.C.	Tantalum Capacitor
F.R.	Fusing Resistor	F.C.	Film Capacitor
N.I.R.	Non-Inflammable Resistor	M.P.	Metalized Paper Capacitor
C.C.	Ceramic Capacitor	P.C.	Polystyrene Capacitor
C.T.	Ceramic Capacitor, Temperature Compensation	G.C.	Gimmic Capacitor
E.C.	Electrolytic Capacitor		

4. OTHER PARTS

4-1. Front View



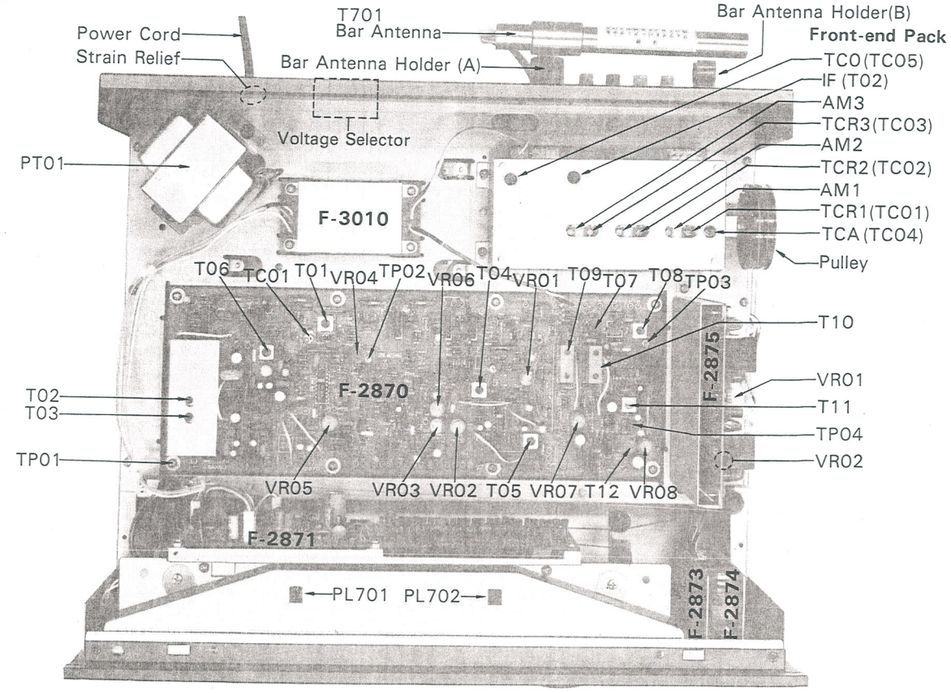
Parts List〈Front View〉

Parts No.	Stock No.	Description
1	5006850	Bonnet
2	7008111	Front Panel Ass'y
2-1	5446640	Dial Window
2-2	5326620	Push Knob
2-3	5286721	Knob Guide
2-4	6906480	Spring
2-5	5336600	Sansui Badge
2-6	5152210	CS Ring, Sansui badge
2-7	5507050	Packing
3	4301370, 1	300μA 650Ω, signal meter
4	5408390	Dial Scale
5	4301380, 1	150μA 650Ω, tune meter
6	5416463	Dial Pointer
7	0319220	LED, display unit
8	0319060	LED (red), FM stereo
9	0319050	LED (green), quartz locked
10	1132010	Selector & Calibration Switch
11	1015480	Level Volume, 10kΩ B x 2
12	5819260	Knob, level volume
13	5318903	Knob, tuning
14	1171130	Auto Noise Filter Switch
15	5326612	Knob, lever switch
16	1171130	FM Muting Switch
17	1171130	FM IF Band Width Switch
18	1172070	AM IF Band Width Switch
19	1171630	Power Switch
20	5066322	Bottom Cover
21	5507350	Leg

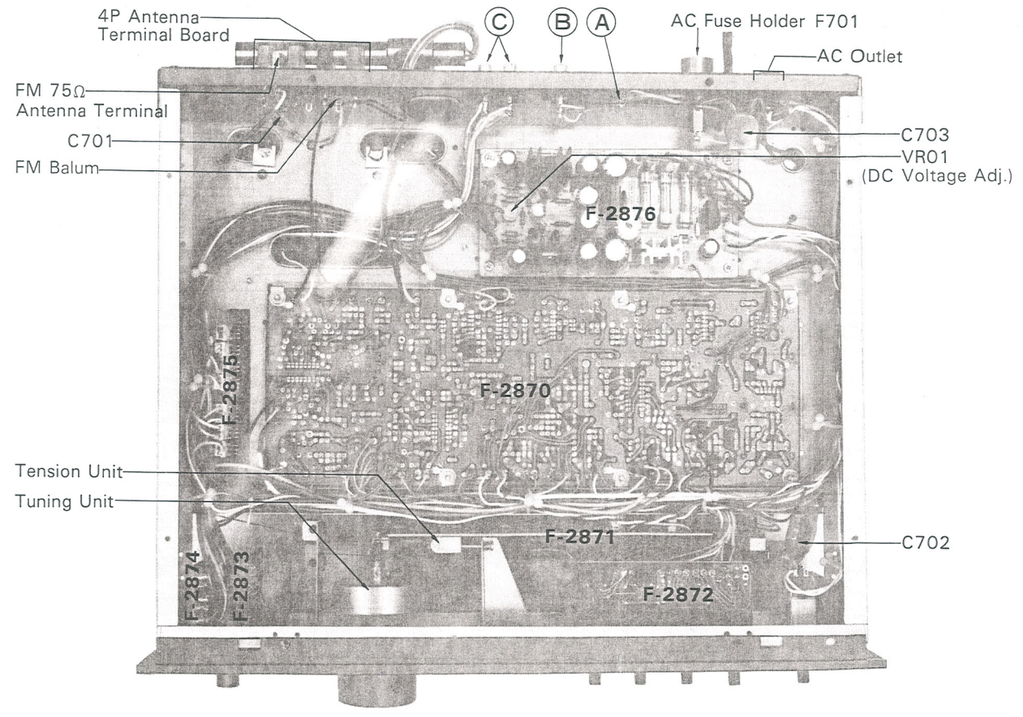
Parts List〈Top&Bottom View〉

Parts No.	Stock No.	Description
C 701	0622682	6800pF 125V P.C.
C 702	0659801	0.01μF 150V C.C.
C 703	0659802	0.0047μF 150V C.C.
PT 702	4003080	Power Transformer
T 701	4290023	FM Balun
T 702	4201000	AM Bar Antenna
PL 701, 702	0400720	8V 300mA, pilot lamp
F 701	0432210	AC Fuse 0.5A 250V
	0432220	AC Fuse 1A 250V
	2410091	Voltage Selector, plug
	2410830	Voltage Selector, socket
	2300060	AC Fuse Holder
Ⓐ	2200290	1P AM IF Output Terminal Board
Ⓑ	2200560	2P FM Multipath Terminal Board
Ⓒ	2200580	4P Output Terminal Board
	2210360	4P Antenna Terminal Board
	2450070	AC Outlet
	7136091	Tension Unit
	7036650	Tuning Unit
	2440031	FM 75Ω Antenna Terminal
	3800470, 1	Power Cord
	3910510	Strain Relief, power cord
	5286450	Bar Antenna Holder (A)
	5286480	Bar Antenna Holder (B)
	9910600	Strain Relief, bar antenna cord
	6146722	Pulley
	7510731	Front-end Pack, FR814U12

4-2. Top View

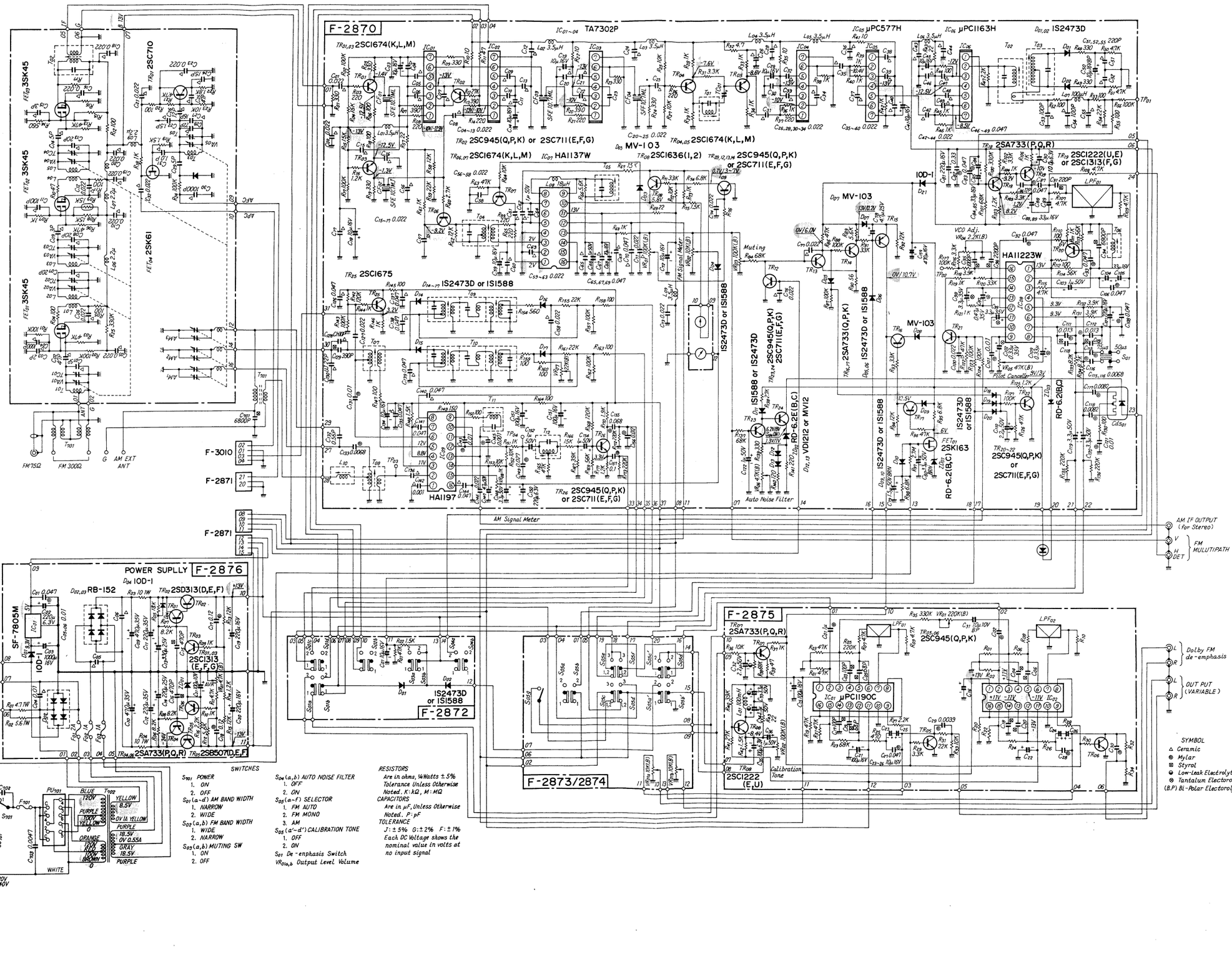


4-3. Bottom View



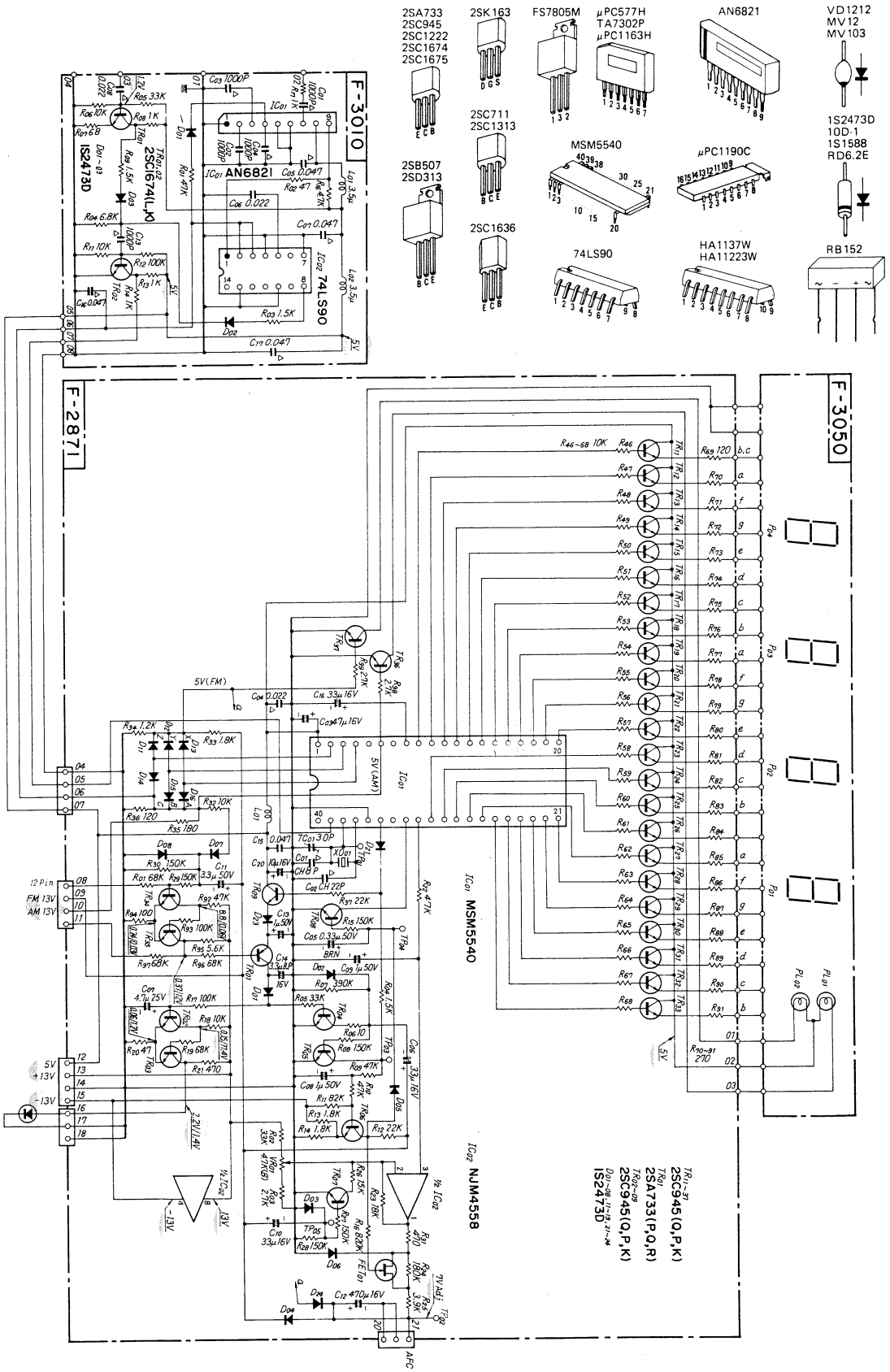
- Design and specifications subject to change without notice for improvement.
- La présentation et les spécifications sont susceptibles d'être modifiées sans préavis par suites d'améliorations éventuelles.
- Änderungen, die dem technischen Fortschritt dienen, bleiben vorbehalten.

5. SCHEMATIC DIAGRAM 5-1. Tuner Section



A	B	C	D

5-2. Digital Display Section



6. THREADING OF DIAL CORD

- If a dial cord is cut off or slips, replace it by following procedures. As this unit uses 0.5 mmϕ cord, please replace it with the same type certainly.
- The length of dial cord is approximately 240 cm (98.4 inch).

6-1. Threading of Dial Cord

Thread the dial cord in numerical order from ① to ⑰ as Fig. 1.

- Open the variable capacitor completely.

* Dial Cord (0.5 mmϕ) . . . . . (Stock No. 6036051)

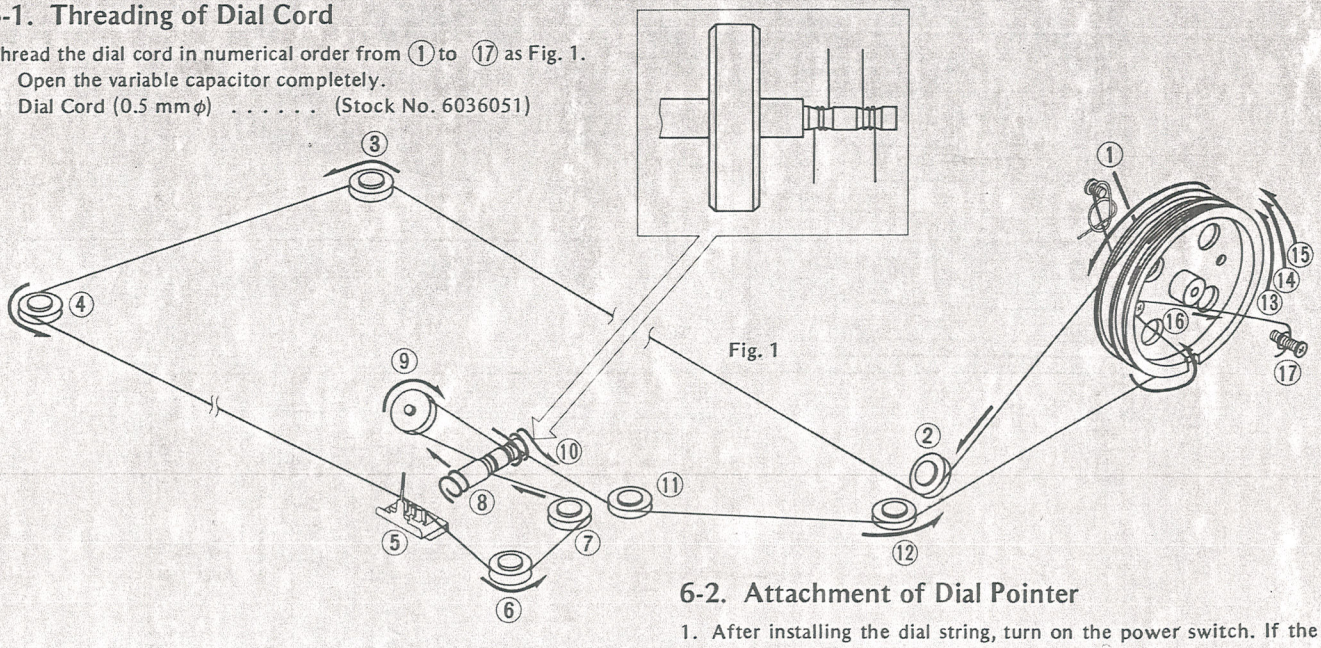


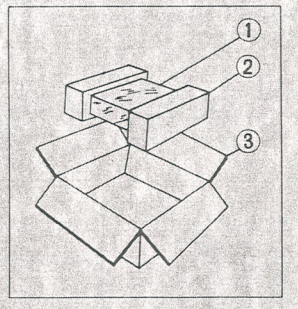
Fig. 1

6-2. Attachment of Dial Pointer

1. After installing the dial string, turn on the power switch. If the digital display is in the "FM Reception" state, turn the tuning knob until the digital display indicates 98.0 MHz. Then, fix the pointer to the dial string, after setting the pointer to the 98.0 MHz value of the scale.
2. After attaching Dial pointer, confirm Dial pointer moves from 88 MHz to 108 MHz to turn the tuning knob.

7. PACKING LIST

Parts No.	Stock No.	Description
1	9116790	Vinyl Cover
2	9028320	Styrofoam Packing
3	9001621	Carton Case



8. ACCESSORY PARTS LIST

Stock No.	Description	
3820120	FM Antenna	1
9203840	Operating Instructions	1
3810320, 1	Pinplug Cord	2
2440021	F Type Connector, FM 75Ω antenna	1
5396720	Rec mounting Adaptor (ea)	2
9237890	Schematic Diagram	1

Sansui

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